## 

$$f(x) = \frac{1}{2}x^2 - 2x - 3\ln x \quad g(x) = \frac{1}{6}x^3 + x^2 - a\ln x$$

$$0 = \frac{1}{6}x^3 + x^2 - a\ln x$$

$$0 = \frac{1}{6}x^3 + x^2 - a\ln x$$

$$200000 \, X^f(x) - g'(x) > f(x) - 2x + a - 6_{000} \, X > 1_{0000} \, a_{0000000}$$

$$F(x) = g(x) - \frac{1}{6}x^{3}$$

2002021 
$$\bigcirc \bullet$$
 00000000000  $f(x) = x^2 - 2x + alm(a > 0)$ 

$$a = 2$$

$$3002021$$
  $\bullet 00000000000$   $f(x) = e^{x} - a(x-1)$ 

0100000 <sup>f(x)</sup>00000

$$2000 \stackrel{a < \frac{5}{2}}{00} f(x) = 000000 \stackrel{X_1 \times X_2}{00} X < X_2 = \frac{f(x_2)}{X} + \frac{f(x_1)}{X_2} = 000000$$

$$5002021$$
  $0 \bullet 00000000000$   $f(x) = axinx_0$   $a \in R_0$ 

$$0100 a=100$$

① [ f(x) [ ] [ ]

020000  $\mathcal{G}(\vec{x}) = f(\vec{x}) + \vec{X}$  0000000000  $\vec{X}_0 \vec{X}_2$  0000  $\vec{X}_2 > \vec{C}_0$ 

$$f(x) = -\frac{a}{2}\vec{e}^x + (x-1)\vec{e}(a \in R)$$

$$7002021 \cdot 000000000 f(x) = lnx_0 g(x) = x^2 - ax(a > 0)_0$$

$$1 = 1 = 1 = f(x) + g(x) = f(x) + g(x) = 1 = 1 = 1$$

$$200 \frac{X_1}{X_2} \frac{X_2(X_1 < X_2)}{X_1} \frac{g(X)}{X^2} + \frac{1}{X} = 0$$

$$8002021 \bullet 0000000 \ a \in R_{000} \ f(x) = e^{x} - ax + a_{0}$$

0100 <sup>f(x)</sup>...0<sub>00</sub> <sup>a</sup>000000

 $010000^{12}000000$ 

020000  $f(\lambda)$  00000000000  $X_0$   $X_2$  0000

$$(1)\sqrt{X_1X_2} < \frac{X_1 - X_2}{\ln X_1 - \ln X_2} < \frac{X_1 + X_2}{2}$$

$$(ii)X_1 + X_2 > 2X_1X_2$$

$$20000 F(x) = f(x+1) - 3x - 2 00000 X_0 X_2 0 X_3 (x < X_2 0000) F(X_2) + (\frac{1}{2} - \ln 2) X_1 > 0$$

$$11002021 \bullet 00000000 F(x) = \ln x + \frac{b}{x} - a(a \in R, b \in R)$$

$$0000 M_0 M.0_0$$

 $0 | 0 0 e^{r-1} - b + 1_{0} | 0 0 0 0 0$ 

$$= \frac{a-1}{b} - m(m \in R) = \frac{a-1}{b} - m(m \in$$

0100 <sup>f(x)</sup> 000000

nın f(x)nnnnnn annnn

$$20000 F(x) = f(x) - 3x + 1_{000000} X_0 X_{00} X_{0000} X_{00000} F(x_0) + (\frac{1}{2} - \ln 2)X_1 > \frac{1}{2} - \ln 2$$

$$14002018 \bullet 000000000 F(x) = (1 - k)x - k \ln x + k - 1_{0000} k \in R_0 k \neq 0_0$$



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